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XP-002230999

STN CA Caesar accession number : 1871

AN - 103:61893 CA

TI - Neodymium luminescence in chalcogenides of europium-gallium: EuGaS₄
EuGa₂Se₄

DT - Journal

IN - Aslanov, G. K.; Niftiev, G. M.; Tagiev, O. B.; Briskina, Ch. M.; Zol
F.; Markushev, V. M.

CS - Inst. Phys., Baku, USSR

SO - Journal of Luminescence (1985), 33(2), 135-40

CODEN: JLUMA8; ISSN: 0022-2313

PY - 1985

AB - Photoluminescence of EuGa₂S₄ and EuGa₂Se₄, doped with Nd, was studied. The positions of Stark levels were detd. from the spectra. The symmetry of luminescence centers is lower than cubic and the existence of nonequivalent centers is established. At 77 K the decay time of luminescence from the excited levels of Nd³⁺ depends on the spin of states. That indicates a slow relaxation rate in the crystals. The crystals probably can be used as effective luminophores.